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Title:

Method of controlling transmission power in cellular system and base station apparatus

Abstract:

A signal is prevented from being transmitted from a mobile station to a base station with excessive transmission power for thereby increasing an uplink capacity. The base station compares the reception quality of the signal transmitted from the mobile station with the target reception quality, and determines an increment for the transmission power of the base station based on a compared result. The base station adds the increment to the transmission power of the base station based on a second control command transmitted from the mobile station, and transmits a first control command for controlling the transmission power of the mobile station with the transmission power to which the increment has been added. If the reception quality of the signal transmitted from the mobile station becomes greater than the target reception quality, then the increment for the transmission power is increased. If the reception quality of the signal transmitted from the mobile station becomes smaller than the target reception quality, then the increment for the transmission power is reduced.